

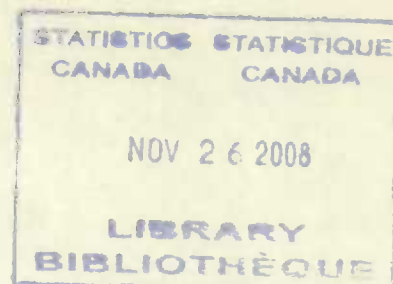
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# IRON AND STEEL PRODUCTS 1959

## GENERAL REVIEW

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### SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.

## EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1959 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1959 are as follows:

### Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

### Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

### Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, warehousing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc., are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

### Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

### Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

### Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants of reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

### Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or



plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

### **Inventories**

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

### **Value Added by Manufacturing**

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.<sup>1</sup>

### **Standard Industrial Classification**

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

### **Short Forms**

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

<sup>1</sup> To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

The general request for the principal items of products on the short form for 1959 permitted a fairly complete compilation of the detailed quantities and values of commodity shipments. In the case of the detailed quantities and values of materials, fuel and electricity, however, and the monthly distribution of production workers, only the totals of data actually reported on the intermediate and long forms are contained in published reports and no attempt was made as in past years to estimate the generally small proportion of individual totals represented by detailed items omitted from the short forms.

The new approach has relieved an additional 12,000 establishments from filling out the regular long form. Establishments now receiving the short form number in excess of 20,000 and account for more than 54 per cent of the total number of establishments and a little more than 3 per cent of the total value of shipments.

# IRON AND STEEL PRODUCTS

1959

## GENERAL REVIEW

The gross value of production for the Iron and Steel Products group of industries totalled \$3,077 millions in 1959 compared with \$2,706 millions in 1958, an increase of 13.7 per cent. The net value of production, or the value added by manufacturing at \$1,568 millions showed an increase of 14.9 per cent from the \$1,364 millions reported in 1958.

The gross values by industries for 1959 were as follows, in millions of dollars: agricultural implements, \$171; boilers and plate work, \$108; bridge and structural steel work \$218; hardware, tools and cutlery, \$170; heating and cooking apparatus \$144; iron castings \$255; machine shops \$68; household, office and store machinery, \$141; machine tools \$11; machinery not elsewhere classified \$343; primary iron and steel \$782; sheet metal products \$366; wire and wire goods \$170; and miscellaneous iron and steel \$130.

The distribution of this production by provinces was as follows, in millions of dollars: Ontario \$2,101; Quebec \$586; British Columbia (including Yukon) \$122; Manitoba \$83; Nova Scotia \$78; Alberta \$74; Saskatchewan \$16; New Brunswick \$15; Newfoundland \$3; Prince Edward Island \$0.2.

In 1959 a total of 3246 factories operated in this group. These works employed 192,969 people who were paid \$861 millions in salaries and wages.

Materials used in manufacturing processes cost \$1,486 millions and fuel and electricity cost \$66 millions.

The Standard Industrial Classification, which has been used by the Dominion Bureau of Statistics since 1949 provides for a separate Transportation Equipment group. This new major division includes such industries as aircraft, shipbuilding, motor vehicles, etc; which were formerly classified to the Iron and Steel and their Products group. The statistics for Iron and Steel products therefore, are not strictly comparable with those published previous to 1949.

**Note:** Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished products inventory owned by manufacturers. Beginning 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.



## IRON AND STEEL PRODUCTS

TABLE 1. Principal Statistics for the Iron and Steel Products Group, by Industries, 1958 and 1959

Industry	Estab- lish- ments	Em- ployees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works	Value added by manufacture <sup>1</sup>
	number				dollars		
1958							
Agricultural implements .....	71	11,011	47,344,429	1,959,417	77,274,314	133,145,309	60,536,739
Boilers and plate work .....	103	7,949	34,535,930	1,451,727	53,265,040	108,888,919	52,986,057
Bridge and structural steelwork .....	65	14,531	66,027,964	1,859,516	100,702,283	210,882,702	108,320,903
Hardware, tools and cutlery .....	430	13,448	51,129,187	2,257,863	55,935,832	158,197,433	100,663,656
Heating and cooking apparatus .....	126	8,670	32,686,116	1,607,974	65,029,147	129,265,079	62,454,754
Iron castings .....	189	15,081	61,777,434	4,471,283	132,575,064	253,444,707	114,962,422
Machine shops .....	700	7,009	26,519,406	1,101,637	20,663,688	59,785,696	37,836,144
Machinery, household, office and store .....	71	8,557	33,950,426	1,046,201	64,616,509	135,976,609	68,096,143
Machine tools .....	14	1,041	4,544,639	157,175	5,820,566	11,355,414	4,478,466
Machinery, not elsewhere classified .....	379	23,347	95,602,417	3,291,154	133,424,224	311,094,856	167,442,946
Primary iron and steel (pig iron, ferro-alloys, steel and rolled products) .....	50	30,261	148,023,062	28,905,568	250,669,538	590,317,696	304,923,587
Sheet metal products .....	473	19,107	78,135,571	3,447,728	175,251,811	333,264,998	154,400,230
Wire and wire goods .....	150	9,219	38,213,572	2,061,192	82,635,926	148,798,469	62,666,734
Miscellaneous iron and steel .....	433	10,209	38,101,081	2,936,729	52,846,492	121,264,912	64,324,698
Totals .....	3,254	179,440	757,173,234	56,555,164	1,270,710,220	2,705,682,799	1,364,093,479
1959							
Agricultural implements .....	71	13,579	61,741,134	2,471,815	101,278,108	170,742,821	78,006,598
Boilers and plate work .....	99	7,666	33,403,400	1,462,128	54,463,002	107,881,063	53,553,524
Bridge and structural steel work .....	61	14,725	69,341,631	2,001,209	102,852,464	217,650,544	112,796,871
Hardware, tools and cutlery .....	425	14,186	56,324,734	2,394,608	64,550,365	170,483,914	106,251,322
Heating and cooking apparatus .....	125	9,136	36,262,945	1,670,572	74,883,959	144,205,438	71,437,085
Iron castings .....	184	15,711	67,876,410	4,895,044	137,379,005	254,948,289	117,290,636
Machine shops .....	696	7,167	28,442,368	1,254,262	22,898,031	67,700,975	44,096,614
Machinery, household, office and store .....	72	8,456	35,962,341	1,026,888	68,880,576	141,218,274	70,368,271
Machine tools .....	13	1,014	4,532,800	165,982	5,118,182	10,892,562	5,606,880
Machinery, not elsewhere classified .....	373	24,805	107,314,000	3,548,894	147,849,567	343,494,959	199,929,990
Primary iron and steel (pig iron, ferro-alloys, steel and rolled products) .....	49	34,942	182,910,151	36,076,238	354,160,093	782,494,003	393,807,515
Sheet metal products .....	490	20,781	90,121,171	3,680,504	196,717,228	365,558,129	170,386,455
Wire and wire goods .....	151	10,510	45,675,566	2,464,283	98,130,789	169,927,054	71,998,710
Miscellaneous iron and steel .....	437	10,291	41,537,036	2,932,595	56,160,489	130,430,179	72,142,787
Totals .....	3,246	192,969	861,445,687	66,045,022	1,486,321,858	3,077,628,204	1,567,673,258

<sup>1</sup> See note to text.

Note: Profits or losses cannot be calculated from the above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 2. Principal Statistics for the Iron and Steel Products Group, by Provinces, 1958 and 1959

Province	Estab- lish- ments	Em- ployees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works	Value added by manufacture <sup>1</sup>
	number			dollars			
1958							
Newfoundland .....	11	294	933,088	54,936	1,003,421	2,511,057	1,426,502
Prince Edward Island .....	4	30	76,890	3,817	107,129	214,805	97,118
Nova Scotia .....	57	5,927	23,786,432	3,329,439	36,947,311	77,669,614	35,161,157
New Brunswick .....	35	1,288	3,993,391	263,235	6,783,766	14,029,276	7,218,777
Quebec .....	780	40,822	159,392,198	9,166,192	251,521,956	546,687,838	277,153,325
Ontario .....	1,644	112,979	494,459,039	40,003,149	842,998,138	1,802,728,575	916,810,635
Manitoba .....	146	5,316	20,917,408	1,102,873	33,464,785	68,371,099	34,538,641
Saskatchewan .....	53	793	2,803,201	161,870	9,732,482	16,766,059	6,925,676
Alberta .....	173	4,272	16,865,222	696,625	33,987,205	63,942,533	28,918,988
British Columbia .....	351	7,719	33,946,365	1,573,028	54,164,027	112,761,743	55,842,660
Canada .....	3,254	179,440	757,173,234	56,555,164	1,270,710,220	2,705,682,799	1,364,093,479
1959							
Newfoundland .....	10	262	887,206	51,340	1,082,001	2,614,341	1,468,781
Prince Edward Island .....	4	32	88,420	5,304	126,647	259,951	128,478
Nova Scotia .....	59	5,525	23,594,161	3,478,774	41,022,321	78,248,846	33,866,277
New Brunswick .....	36	1,242	4,032,942	265,507	6,976,419	14,616,733	7,194,135
Quebec .....	763	41,067	168,953,696	9,629,552	269,726,852	585,694,755	307,162,254
Ontario .....	1,644	125,024	578,478,212	48,094,838	1,020,757,847	2,101,414,315	1,071,068,636
Manitoba .....	149	6,128	25,167,124	1,392,074	38,291,862	83,040,494	44,262,186
Saskatchewan .....	55	917	3,496,660	177,801	9,089,708	16,061,288	7,375,608
Alberta .....	174	4,599	19,484,630	1,054,460	39,130,517	73,753,858	34,606,261
British Columbia .....	352	8,173	37,262,636	1,895,372	60,117,684	121,923,623	60,540,642
Canada .....	3,246	192,969	861,445,687	66,045,022	1,486,321,858	3,077,628,204	1,567,673,258

<sup>1</sup> See note to text.

TABLE 3. Inventories<sup>1</sup> in the Iron and Steel Products Group, 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
(a) By industries				
Opening:				
Agricultural implements .....	10,081,033	21,932,196	8,871,639	40,884,868
Boilers and plate work .....	14,548,276	10,605,911	3,797,139	28,951,326
Bridge and structural steel work .....	40,851,409	12,116,419	2,668,664	55,636,493
Hardware, tools and cutlery .....	15,638,109	9,346,710	13,038,770	38,023,589
Heating and cooking apparatus .....	12,175,960	4,822,885	10,859,561	27,858,406
Iron castings .....	24,853,535	7,851,600	23,609,472	56,314,607
Machine shops .....	4,701,449	1,002,992	1,027,691	6,732,132
Machinery, household, office and store .....	14,555,541	10,413,088	14,028,680	38,997,309
Machine tools .....	1,103,447	836,590	1,016,938	2,956,975
Machinery, not elsewhere classified .....	35,601,426	25,625,826	29,770,427	90,997,679
Primary iron and steel (pig iron, ferro-alloys, steel and rolled products) .....	75,618,986	30,148,552	28,516,008	134,283,546
Sheet metal products .....	26,583,509	11,789,845	15,773,174	54,146,528
Wire and wire goods .....	17,716,855	2,480,834	16,229,722	36,427,411
Miscellaneous iron and steel .....	15,677,585	8,858,211	4,123,714	28,659,510
Totals .....	309,707,120	157,831,659	173,331,599	640,870,378
Closing:				
Agricultural implements .....	14,734,875	31,352,225	10,465,310	56,552,410
Boilers and plate work .....	13,517,293	12,679,195	3,321,446	29,517,934
Bridge and structural steel work .....	41,915,629	24,926,880	1,129,353	67,971,862
Hardware, tools and cutlery .....	17,431,469	10,009,566	15,088,295	42,529,330
Heating and cooking apparatus .....	14,677,010	6,064,648	13,403,976	34,145,634
Iron castings .....	26,215,525	9,428,017	26,649,451	62,292,993
Machine shops .....	5,275,734	1,380,112	1,198,503	7,854,349
Machinery, household, office and store .....	17,216,463	9,685,050	14,814,179	41,715,692
Machine tools .....	1,146,013	1,088,337	763,673	2,998,023
Machinery, not elsewhere classified .....	37,695,186	29,078,256	34,151,489	100,924,931
Primary iron and steel (pig iron, ferro-alloys, steel and rolled products) .....	80,876,552	30,843,400	29,371,003	141,090,955
Sheet metal products .....	35,272,541	13,379,223	19,409,854	68,061,618
Wire and wire goods .....	18,741,290	2,781,149	18,596,135	40,118,574
Miscellaneous iron and steel .....	15,981,183	9,549,586	4,238,031	29,768,800
Totals .....	340,696,763	192,245,644	192,600,698	725,543,105
(b) By provinces				
Opening:				
Newfoundland .....	339,247	183,785	97,169	620,201
Prince Edward Island .....	19,915	—	3,648	23,563
Nova Scotia .....	13,281,839	3,044,436	2,038,460	18,364,735
New Brunswick .....	1,690,825	464,765	1,505,637	3,661,227
Quebec .....	59,886,015	25,975,088	41,254,575	127,115,678
Ontario .....	196,111,957	114,122,893	113,217,891	423,452,741
Manitoba .....	11,288,502	5,558,694	2,829,269	19,676,465
Saskatchewan .....	2,119,795	429,524	1,810,036	4,359,355
Alberta .....	10,288,597	1,722,584	3,735,574	15,746,755
British Columbia .....	14,680,428	6,329,890	6,839,340	27,849,658
Canada .....	309,707,120	157,831,659	173,331,599	640,870,378
Closing:				
Newfoundland .....	294,775	177,104	91,631	563,510
Prince Edward Island .....	21,214	—	4,126	25,340
Nova Scotia .....	12,817,167	3,543,247	2,254,297	18,614,711
New Brunswick .....	1,763,688	504,545	1,285,185	3,553,418
Quebec .....	61,570,863	28,034,480	41,026,388	130,631,731
Ontario .....	222,148,651	136,836,933	130,079,788	489,065,372
Manitoba .....	13,368,718	5,699,913	3,265,060	22,333,691
Saskatchewan .....	1,819,891	403,695	2,408,694	4,632,280
Alberta .....	11,458,998	3,302,338	4,677,944	19,439,280
British Columbia .....	15,432,798	13,743,389	7,507,585	36,683,772
Canada .....	340,696,763	192,245,644	192,600,698	725,543,105

<sup>1</sup> (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Iron and Steel Products Group of industries for the year under review are shown in the above table.

(c) The opening inventory for the current year may not necessarily agree with the closing inventory published the previous year because of changes in the composition of the industry such as: the addition of new establishments, the disappearance of old ones, or the transfer of establishments to other industries for statistical purposes. The figure for "Value added by manufacture" for the previous year does not need to be altered because of such changes in the composition of the industry.



TABLE 4. Employees and Earnings in the Iron and Steel Products Group, by Industries, 1958 and 1959

Industry	Employees					Earnings		
	Supervisory and office		Production and related workers		Total employees	Supervisory and office	Production and related workers	Total earnings
	Male	Female	Male	Female				
	number					thousands of dollars		
1958								
Agricultural implements .....	2,083	572	8,260	96	11,011	13,205	34,139	47,344
Boilers and plate work .....	1,826	526	5,562	35	7,949	11,832	22,704	34,536
Bridge and structural steel work .....	3,002	675	10,836	18	14,531	20,052	45,976	66,028
Hardware, tools and cutlery .....	2,201	1,103	8,684	1,460	13,448	15,953	35,176	51,129
Heating and cooking apparatus .....	1,693	697	6,045	235	8,670	11,130	21,738	32,868
Iron castings .....	2,071	704	12,062	244	15,081	13,830	47,347	61,777
Machine shops .....	1,474	355	5,096	84	7,009	7,709	18,810	26,519
Machinery, household, office and store .....	1,524	725	5,551	757	8,557	11,038	22,912	33,950
Machine tools .....	222	78	741	—	1,041	1,609	2,936	4,545
Machinery, not elsewhere classified .....	6,322	2,111	14,390	524	23,347	38,879	56,724	95,603
Primary iron and steel (pig iron, ferro-alloys, steel and rolled products) .....	4,266	1,095	24,728	172	30,261	32,620	115,403	148,023
Sheet metal products .....	3,324	1,356	12,927	1,500	19,107	23,267	54,868	78,135
Wire and wire goods .....	1,477	619	6,501	622	9,219	10,953	27,261	38,214
Miscellaneous iron and steel .....	2,012	507	7,043	647	10,209	12,124	26,977	39,101
Totals .....	33,497	11,123	128,426	6,394	179,440	224,200	532,973	757,173
1959								
Agricultural implements .....	2,416	606	10,457	100	13,579	16,326	45,415	61,741
Boilers and plate work .....	1,789	497	5,350	30	7,666	11,315	22,088	33,403
Bridge and structural steel work .....	3,083	709	10,920	13	14,725	20,928	48,414	69,342
Hardware, tools and cutlery .....	2,300	1,107	9,180	1,599	14,186	17,106	39,219	56,325
Heating and cooking apparatus .....	1,803	736	6,336	261	9,136	12,054	24,209	36,263
Iron castings .....	2,143	684	12,667	217	15,711	14,579	53,298	67,876
Machine shops .....	1,508	372	5,210	77	7,167	8,375	20,067	28,443
Machinery, household, office and store .....	1,693	718	5,320	725	8,456	11,895	24,067	35,962
Machine tools .....	198	61	754	1	1,014	1,472	3,061	4,533
Machinery, not elsewhere classified .....	6,457	2,220	15,454	674	24,805	41,905	65,409	107,314
Primary iron and steel (pig iron, ferro-alloys, steel and rolled products) .....	4,576	1,163	28,996	207	34,942	35,723	147,188	182,916
Sheet metal products .....	3,692	1,395	14,181	1,513	20,781	26,673	63,448	90,121
Wire and wire goods .....	1,710	696	7,338	766	10,510	12,883	32,792	45,676
Miscellaneous iron and steel .....	2,060	491	7,216	524	10,291	12,552	28,985	41,537
Totals .....	35,428	11,455	139,379	6,707	192,969	243,786	617,660	861,446

TABLE 5. Employees and Earnings in the Iron and Steel Products Group, by Provinces, 1958 and 1959

Province	Employees					Earnings			
	Supervisory and office		Production and related workers		Total	Supervisory and office	Production and related workers	Total	
	Male	Female	Male	Female					
	number					thousands of dollars			
1958									
Newfoundland .....	37	13	244	—	294	202	731	933	
Prince Edward Island .....	9	1	20	—	30	26	51	77	
Nova Scotia .....	700	150	5,074	3	5,927	4,231	19,555	23,786	
New Brunswick .....	203	84	979	22	1,288	1,186	2,807	3,993	
Quebec .....	8,083	2,285	29,114	1,340	40,822	49,410	109,982	159,392	
Ontario .....	20,752	7,619	79,925	4,683	112,979	146,609	347,850	494,459	
Manitoba .....	1,028	271	3,972	45	5,316	6,139	14,778	20,917	
Saskatchewan .....	146	45	594	8	793	873	1,930	2,803	
Alberta .....	933	218	3,054	67	4,272	5,312	11,553	16,865	
British Columbia .....	1,606	437	5,450	226	7,719	10,212	23,734	33,946	
Canada .....	33,497	11,123	128,426	6,394	179,440	224,200	532,973	757,173	
1959									
Newfoundland .....	25	13	223	1	262	158	729	887	
Prince Edward Island .....	10	1	21	—	32	30	58	88	
Nova Scotia .....	702	140	4,678	5	5,525	4,336	19,258	23,594	
New Brunswick .....	217	79	931	15	1,242	1,148	2,885	4,033	
Quebec .....	8,242	2,299	29,212	1,314	41,067	52,091	116,863	168,954	
Ontario .....	22,249	7,902	89,855	5,018	125,024	160,876	417,602	578,478	
Manitoba .....	1,135	292	4,651	50	6,128	7,150	18,017	25,167	
Saskatchewan .....	190	54	672	1	917	1,054	2,443	3,497	
Alberta .....	963	230	3,354	52	4,599	5,801	13,684	19,485	
British Columbia .....	1,695	445	5,782	251	8,173	11,142	26,121	37,263	
Canada .....	35,428	11,435	139,379	6,707	192,969	243,786	617,660	861,446	



TABLE 6. Wage-earners Employed in the Iron and Steel Products Group, by Months and by Industries,<sup>1</sup> 1959

Month	Agricultural implements	Boilers and plate work	Bridge and structural steel work	Hardware, tools and cutlery	Heating and cooking apparatus	Iron castings	Machine shops
number							
January .....	9,716	5,100	9,592	9,190	5,240	10,968	4,069
February .....	10,527	5,098	9,763	9,191	5,606	11,445	4,167
March .....	10,950	5,158	9,881	9,299	5,815	11,493	4,189
April .....	11,047	5,099	10,122	9,525	5,868	11,395	4,290
May .....	11,262	5,130	10,908	9,615	6,039	11,448	4,291
June .....	11,238	5,326	11,310	9,756	6,443	11,988	4,335
July .....	10,825	5,136	11,011	9,701	6,395	11,669	4,368
August .....	8,545	5,102	11,513	9,916	6,623	11,693	4,435
September .....	9,823	5,160	11,259	10,031	6,858	11,862	4,439
October .....	9,971	5,208	10,626	9,850	6,699	11,766	4,418
November .....	9,749	5,139	9,904	9,734	6,379	11,265	4,377
December .....	9,457	4,888	9,237	9,714	5,360	11,015	4,332
number							
	Machinery, household, office and store	Machine tools	Machinery n.e.c.	Primary iron and steel	Sheet metal products	Wire and wire goods	Miscellaneous iron and steel
January .....	5,652	693	12,921	26,049	12,461	7,061	6,463
February .....	5,648	683	13,093	26,554	12,714	7,160	6,589
March .....	5,648	671	13,449	27,420	13,139	7,310	6,653
April .....	5,641	682	13,880	28,235	13,924	7,381	6,611
May .....	5,599	663	14,230	29,251	14,383	7,540	6,911
June .....	5,709	690	14,728	29,932	15,138	7,701	6,903
July .....	5,195	693	14,639	30,089	15,345	7,336	6,809
August .....	5,325	700	14,772	30,312	15,750	7,538	7,037
September .....	5,379	691	14,873	30,642	15,643	7,682	7,070
October .....	6,033	697	15,072	31,010	14,870	7,725	6,746
November .....	5,945	691	14,849	30,841	14,419	7,428	6,296
December .....	5,770	695	14,704	30,460	13,578	7,514	6,205

<sup>1</sup> See footnote to Table 7.TABLE 7. Wage-earners Employed in the Iron and Steel Products Group, by Months and by Provinces,<sup>1</sup> 1959

Month	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia
number										
January .....	189	17	4,274	694	25,591	83,267	3,869	446	2,647	4,181
February .....	196	16	4,318	826	25,958	85,447	3,972	439	2,700	4,366
March .....	195	16	4,378	835	26,349	87,403	4,097	449	2,815	4,538
April .....	204	18	4,358	828	26,933	89,069	4,231	493	2,890	4,676
May .....	193	19	4,488	844	27,593	91,279	4,486	506	3,049	4,813
June .....	211	18	4,444	884	28,368	93,832	4,603	555	3,288	4,994
July .....	202	18	4,507	936	27,694	92,547	4,627	567	3,223	4,890
August .....	203	19	4,634	953	28,736	91,096	4,699	563	3,444	4,914
September .....	207	19	4,869	960	28,543	93,167	4,714	529	3,383	5,021
October .....	201	18	4,986	958	28,291	93,528	4,257	494	3,291	4,667
November .....	194	18	4,847	931	27,513	91,281	4,119	418	3,017	4,678
December .....	191	18	4,654	734	26,691	89,024	3,801	417	2,899	4,500

<sup>1</sup> Data for 1959 are not strictly comparable with those for previous years since they relate only to establishments generally reporting value of factory shipments of \$300,000 and over. For total average number of production workers in 1959 (including estimate for small firms) see Table 5.

TABLE 8. Alphabetical List of Materials Used in the Industries in the Iron and Steel Products Group, 1958 and 1959

Material		1958		1959	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Acid:					
Muriatic .....	lb.	4,086,199	129,550	4,155,859	143,735
Sulphuric .....	"	74,600,114	1,034,108	92,091,727	1,284,283
Aluminum all forms .....	"	60,188,728	29,150,113	67,565,190	33,238,826
Axles, old, for re-rolling .....	ton	6,222	314,419	7,052	388,539
Babbitt metal and solders .....	lb.	2,612,774	764,115	2,507,963	786,779
Bars and rods, iron and steel (except alloy) .....	ton	377,713	51,207,146	396,892	57,205,507
Bentonite .....	"	4,201	158,463	5,139	183,834
Billets and slabs, steel:					
Companies' own make .....	"	88,203	—	102,843	—
Purchased .....	"	185,999	18,676,375	245,526	26,308,544
Brass and bronze, all forms .....	lb.	23,116,038	11,193,631	22,820,967	11,574,886
Calcium molybdate and molybdenum trioxide briquettes .....	ton	246	442,391	461	707,135
Calcium manganese silicon .....	"	105	57,563	141	79,301
Calcium silicon .....	"	214	112,860	251	110,766
Castings:					
Iron (gray and malleable) .....	"	71,403	19,276,432	82,459	23,051,174
Steel .....	"	22,528	10,130,926	21,380	9,225,700
Charcoal for steel and ferro-alloy furnaces .....	"	19	1,612	19	1,650
Coal:					
Anthracite, for steel and ferro-alloy furnaces .....	"	8,597	121,115	11,199	154,182
Bituminous, for steel and ferro-alloy furnaces .....	"	22,836	352,054	28,471	465,335
Coke (charged to blast furnaces, cupolas, etc.) .....	"	2,614,492	41,888,164	3,287,433	52,354,998
Coke, petroleum .....	"	49,488	1,023,852	88,091	1,554,301
Copper, all forms .....	lb.	6,546,120	3,271,496	8,602,216	4,202,256
Core oil .....	Imp. gal.	198,967	243,849	282,260	328,736
Cork discs (for bottle caps) .....	"	..	1,240,125	..	1,306,134
Cotton, duck and other textiles for farm implements .....	"	..	470,795	..	296,953
Dolomite .....	ton	377,152	2,765,480	421,801	3,313,165
Diamonds (industrial) .....	"	..	944,870	..	1,109,891
Electrodes, for steel and ferro-alloy furnaces .....	"	..	2,479,109	..	2,331,743
Ferro-alloys used in steel furnaces, etc.:					
Ferrochrome, including chrom-x .....	ton	4,714	2,153,258	7,727	3,082,426
Ferromanganese .....	"	31,242	7,874,648	39,437	9,608,807
Ferrosilicon .....	"	9,420	1,449,780	12,723	1,981,442
Ferrophosphorus .....	"	204	20,296	284	28,971
Ferrotitanium .....	"	210	76,689	252	84,683
Ferrotungsten .....	"	38	81,061	63	120,986
Silicomanganese .....	"	6,300	1,622,380	8,775	2,228,458
Spiegeleisen .....	"	157	12,110	18	1,405
Ferromolybdenum .....	"	88	210,109	122	310,403
Ferrovanadium .....	"	71	252,741	124	463,725
Other ferro-alloys .....	"	..	1,971,636	..	2,739,140
Firebrick (also see next item) .....	"	..	686,399	..	806,707
Firebrick, fireclay and cupola blocks, (not shown separately) .....	"	..	10,059,165	..	13,316,635
Fireclay (also see previous item) .....	ton	11,990	234,773	12,553	267,679
Fluorspar used in steel and ferro-alloy furnaces .....	"	14,539	425,058	20,063	584,074
Ganister .....	"	4,226	23,252	3,504	22,266
Handles for tools .....	"	..	846,694	..	771,263
Ingot and blooms, steel:					
Companies' own make (value not given) .....	ton	4,226,714	—	5,622,904	—
Purchased .....	"	748	260,000	158,009	12,491,272
Iron pig:					
Companies' own make (value not given) .....	"	2,602,751	—	3,500,718	—
Purchased .....	"	198,673	12,342,716	231,389	14,105,630
Iron and steel, n.e.s. ....	"	..	23,616,565	..	22,963,883
Lead, all forms .....	lb.	1,914,290	283,999	2,026,497	266,326
Lime .....	ton	155,539	2,188,420	211,304	3,214,809
Limestone used in iron, steel and ferro-alloy furnaces .....	"	888,416	1,974,983	958,581	2,284,952
Linseed oil .....	Imp. gal.	44,580	60,718	49,305	63,706
Lumber .....	M ft. b.m.	36,920	4,013,235	33,657	3,713,224
Magnesite used in steel furnaces .....	ton	6,186	414,789	9,626	662,193
Metals, non-ferrous, n.e.s. ....	"	..	2,776,039	..	2,638,605
Mill cinder, scale, slag, etc. ....	ton	160,746	940,396	175,914	1,186,242
Nail plate:					
Companies' own make .....	lb.	1,199,398	101,600	1,593,995	118,444
Purchased .....	"	..	..	..	..
Nickel, all forms (except nickel-copper shot) .....	lb.	3,256,263	2,997,149	5,308,743	3,761,071
Ore:					
Iron, beneficiated .....	ton	2,182,364	25,215,130	3,453,433	41,228,313
Iron, crude .....	"	3,646,267	38,160,816	4,129,445	42,264,065
Tungsten .....	"	110	81,783	225	170,786
Paints, oils and varnishes .....	"	..	8,188,209	..	9,302,703
Pipe, tubes and fittings, iron and steel (except boiler tubes) .....	"	..	16,118,290	..	15,988,958
Plates, steel (3/16" and thicker, except alloy) .....	ton	256,858	42,272,787	269,984	42,687,195
Plumbago and graphite .....	lb.	2,936,391	188,107	3,425,751	236,965
Quartzite for ferro-alloys .....	ton	61,337	176,077	79,034	200,314
Rails, old, for re-rolling .....	"	58,277	2,899,499	72,321	3,746,855
Rods, steel wire, for drawing:					
Companies' own make .....	ton	174,320	22,918,172	249,614	33,588,795
Purchased .....	"	150,741	17,697,577	126,551	15,481,966
Salammoniac (ammonium chloride) .....	lb.	352,030	33,262	356,957	39,853
Sands, foundry (including silica sand for sand blasting) .....	ton	258,162	2,128,264	286,171	2,385,472

See note at end of table.



**TABLE 8. Alphabetical List of Materials Used in the Industries in the Iron and Steel Products Group, 1958 and 1959 - Concluded**

Material		1958		1959	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Scrap iron and steel:					
Companies' own make used in steel furnaces (value not given)	ton	1,112,744	—	1,559,599	—
Companies' own make used in iron foundries	"	30,820	1,134,060	31,433	954,100
Purchased	"	1,519,358	48,218,931	1,919,091	67,499,298
Sheets, steel (except alloy):					
Galvanized	"	149,998	28,536,599	167,606	31,780,049
Plain (black)	"	325,646	50,083,198	380,436	58,105,245
Tin plate	"	297,617	56,921,119	315,564	59,758,214
Sodium nitrate	"	545	27,114	—	—
Strip, steel (except alloy)	"	44,165	7,956,209	50,288	9,271,183
Structural shapes, steel	"	444,984	68,972,359	476,336	69,154,703
Steel, alloy all kinds	"	—	26,794,452	—	29,063,646
Steel, sheet and strip, hot or cold rolled for pipes and tubes	ton	491,129	63,565,911	422,741	52,610,133
Sulphur	"	58	11,771	171	29,545
Tackplate:					
Companies' own make	lb.	637,310	52,387	672,403	49,450
Purchased	"	1,770,399	157,136	1,721,207	153,479
Tin	"	3,918,080	3,657,549	5,125,329	5,023,872
Tungsten carbide powder	"	—	585,439	—	619,488
Wire, iron and steel, plain, galvanized and coated, other	ton	112,878	25,183,059	121,359	26,435,344
Zinc, all forms	lb.	62,229,579	7,036,654	76,505,585	9,732,894
Containers and packing materials	"	—	17,057,891	—	19,054,863
All other materials	"	—	413,268,138	—	503,988,525
<b>Totals</b>		<b>...</b>	<b>1,270,710,220</b>	<b>...</b>	<b>1,486,201,851</b>

<sup>1</sup> The 1959 totals for this item reflect a change in statistical concept and, therefore, are not comparable with previous years. Prior to 1959, the tonnages and corresponding values involved in certain inter-divisional transfers were omitted but as of 1959 in line with the conceptual change referred to above these tonnages and values are being included in both materials and shipments - see item covered by footnote 16 in Table 9.

**TABLE 9. Factory Shipments of Specified Products Made Principally of Iron and Steel, 1958 and 1959**

Note: The figures given below represent the total factory shipments in Canada of the commodities which are listed, although in some instances part of the output was by concerns which were classified to industries in other major groups.

Product		1958		1959	
		Quantity shipped	Value of factory shipments	Quantity shipped	Value of factory shipments
			\$		\$
Axes and hatchets	No.	324,000	722,000	310,000	705,000
Bale ties, wire:					
Quantity made	ton	3,430	—	3,255	—
Quantity sold	"	3,557	989,382	3,286	889,408
Barrels and drums, steel: <sup>1</sup>					
Repeat shippers	No.	51,504	523,708	38,000	381,700
One-time shippers	"	1,112,810	4,409,680	1,449,689	5,505,799
Bars, steel, hot-rolled, all kinds:					
Quantity made	ton	705,073	—	949,865	—
Quantity sold	"	585,016	86,215,757	795,274	116,993,886
Blooms, billets and slabs, steel:					
(a) Except for forging:					
Quantity made	ton	101,343	8,245,163	131,574	11,303,743
Quantity sold	"	—	—	—	—
(b) For forging:					
Quantity made	"	171,217	—	197,415	—
Quantity sold	"	166,079	20,274,809	194,419	21,518,211
Boilers:					
Heating boilers:					
Cast iron sectional:					
(a) Under 775 sq. ft.	No.	6,437	1,329,900	6,150	1,389,192
(b) 775-1,499 sq. ft.	"	2,309	887,988	2,316	935,910
(c) 1,500 sq. ft. and over	"	1,237	1,212,916	1,214	1,183,812
Steel:					
(a) 522 sq. ft. and under (heating surface)	"	8,665	4,961,020	9,368	5,828,276
(b) Over 522 sq. ft. (heating surface)	"	449	2,286,669	577	2,286,978
Power boilers:					
Water tube package boiler units	"	102	4,519,790	112	8,264,443
Fire tube package boiler units	"	60	531,229	217	970,199
Fire tube boilers	"	42	290,694	51	614,037
Marine type	"	283	1,149,205	76	541,504
Boilers, type not specified	"	..	10,350,217	..	12,402,124

See footnotes at end of table.

TABLE 9. Factory Shipments of Specified Products Made Principally of Iron and Steel, 1958 and 1959 - Continued

Product		1958		1959	
		Quantity shipped	Value of factory shipments	Quantity shipped	Value of factory shipments
			\$		\$
Bottle caps, metal .....	..	..	14,491,456	..	15,700,000
Cans, metal .....	..	..	107,125,000	..	114,098,000
Castings, iron (except pipe and fittings):					
Grey and white .....	ton	468,000	—	605,000	—
Malleable .....	"	36,000	—	36,000	—
Castings:					
Steel:					
Quantity made .....	ton	97,344	—	102,131	—
Quantity sold .....	"	95,759	41,482,731	97,005	43,921,834
Cultivators .....	No.	12,606	3,323,843	21,394	6,637,961
Cutlery, steel (paring knives, bread knives, scissors, etc.) .....	..	..	2,621,744	..	2,518,000
Drills, seeding .....	No.	606	93,763	1,255	637,167
Eavestrough .....	..	..	2,957,000	..	2,704,000
Fencing, steel wire:					
Farm .....	ton	13,390	2,933,424	15,522	3,248,376
Lawn .....	"	1,546	404,761	1,327	370,907
Chain link fabric .....	"	7,135	1,863,531	7,458	1,953,343
Ferro-alloys .....	"	112,589	—	135,526	—
Forks, farm or garden, hand .....	No.	216,428	481,000	148,000	275,000
Furnaces, warm air .....	"	171,886	31,478,775	183,038	32,327,349
Hardware:					
Builders' and shelf .....	..	..	19,787,301	..	21,518,000
Harness and saddlery .....	..	..	129,240	..	132,000
Pole line (except insulators) .....	..	..	12,305,422	..	12,251,000
Automobile .....	..	..	7,224,991	..	6,117,000
Furniture and cabinet .....	..	..	6,525,942	..	6,812,000
Trunk and suitcase .....	..	..	441,418	..	282,000
Other .....	..	..	5,023,523	..	5,529,000
Harrows, all kinds except harrow-plows .....	No.	35,549	3,969,211	50,031	5,628,843
Harrow-plows, one-way discs and tiller-combines .....	"	4,158	2,756,107	3,996	2,729,443
Hay loaders .....	"	149	30,525	828	71,725
Hay rakes, including combination side rakes and tedders .....	"	8,784	4,872,467	9,767	3,417,622
Heaters, domestic water-tank:					
Cast iron for coal, wood or oil (120 gallons or less) .....	"	988	151,318	655	62,700
Gas, automatic .....	"	81,725	5,911,895	112,283	7,048,315
Gas, not automatic .....	"	8,339	354,433	6,408	294,595
Electric, circulating type .....	"	23,518	140,164	17,912	96,456
Electric, immersion type .....	"	289,285	704,824	364,564	803,054
Clamp-on type .....	"	12,966	61,653	9,376	46,661
Electric, automatic storage tank type, including tank and controls .....	"	85,281	5,508,107	121,692	7,645,356
Heaters, unit, all types .....	"	17,478	4,120,942	21,686	4,522,839
Hoes, hand .....	"	120,238	183,000	139,000	253,000
Ingots, steel:					
Quantity made .....	ton	4,262,122	—	5,799,356	—
Quantity sold .....	"	9,492	1,098,363	201,244	15,083,290
Iron, pig:					
Quantity made .....	"	3,059,579	—	4,182,775	—
Quantity sold .....	"	429,708	24,878,802	662,341	36,280,610
Kitchenware:					
Aluminum .....	..	..	7,293,000	..	6,409,000
Enamelled .....	..	..	758,339	..	836,000
Stainless steel .....	..	..	2,882,411	..	2,029,000
Lath and corner bead, metal .....	..	..	4,691,000	..	4,450,000
Compressors and pumps:					
Air compressors:					
Stationary type .....	..	..	4,985,000	..	4,711,000
Portable type .....	..	..	1,823,000	..	1,960,000
Pumps:					
Centrifugal .....	..	..	7,817,000	..	8,307,000
Cistern and pitcher .....	..	..	61,000	..	40,000
Deep well .....	No.	8,345	252,000	7,615	755,000
Rotary .....	"	836	439,000	592	682,000
Sump .....	No.	29,130	968,000	36,254	1,239,000
Vacuum .....	..	..	171,000	..	140,000
Pump jacks .....	..	..	127,000	..	113,000
Hand pumps .....	..	..	354,000	..	421,000
Self-contained household water pumping systems:					
Deep well and shallow jets .....	No.	30,257	2,746,000	35,677	3,217,000
Shallow well - Non-jet .....	"	31,501	2,927,000	29,486	2,484,000
Other power pumps; including direct-acting steam piston and electric .....	..	..	5,577,000	..	3,185,000
Pumps parts and accessories .....	..	..	4,091,000	..	4,014,000

See footnote at end of table.



TABLE 9. Factory Shipments of Specified Products Made Principally of Iron and Steel, 1957 and 1958 - Continued

Product	1958		1959	
	Quantity shipped	Value of factory shipments	Quantity shipped	Value of factory shipments
	No.	\$	No.	\$
Conveying, elevating and materials handling equipment:				
Conveyors and conveying systems:				
Gravity conveyors, (including straight and spiral chutes)	..	1,366,000	..	1,743,000
Portable conveyor units	..	581,000	..	613,000
Power conveyors:				
Belt type	..	8,764,000	..	9,833,000
Bucket type	..	1,262,000	..	1,656,000
Other conveyors, including pneumatic tube systems and parts	...	4,152,000	...	5,641,000
Elevators, including passenger, freight, sidewalk, dumb-waiters, escalators and parts	...	14,377,000	...	14,994,000
Hoisting machinery (except mine hoists):				
Powered overhead travelling cranes	..	8,336,000	..	5,226,000
Other cranes	..	723,000	..	909,000
Chain blocks and trolleys	..	1,130,000	..	1,410,000
Monorail electric hoists	..	370,000	..	283,000
Monorail systems	..	371,000	..	471,000
Industrial hoists and lifts, stationary	..	247,000	..	76,000
Winches	..	758,000	..	1,748,000
Other hoisting machinery	..	1,815,000	..	2,378,000
Attachments and parts for hoisting machinery	..	203,000	..	615,000
Industrial trucks, tractors, trailers and stackers:				
Hand trucks (including dollies)	..	1,541,000	..	1,382,000
Lift trucks and cranes	..	1,371,000	..	1,652,000
Other industrial tractors, stackers, including powered types	..	1,648,000	..	1,371,000
Miscellaneous materials handling equipment	..	4,127,000	..	3,780,000
Drilling excavating, mining and related machinery:				
Rock drilling, earth boring and related machinery:				
Rock drills, including diamond drills	..	2,265,000	..	1,682,000
Diamond drill bits	..	2,558,000	..	4,167,000
Tungsten carbide drill bits	..	6,789,000	..	5,728,000
Other drill bits	..	533,000	..	4
Other rock drilling, earth boring and related machinery and parts	..	7,664,000	..	7,755,000
Mining and ore processing machinery:				
Ball and rod mills	..	1,356,000	..	1,518,000
Classifiers	..	255,000	..	344,000
Crushers, jaw and gyratory	..	1,950,000	..	2,055,000
Hoists (mine hoists only)	..	1,377,000	..	1,024,000
Mine cars	860	1,207,000	142	418,000
Skips and cages	..	540,000	..	381,000
All other mining and ore processing machinery including agitators, coal cutting machines, filters flotation machines, screens, thickeners, etc. and parts	...	12,113,000	...	13,319,000
Construction, excavating, dredging and loading equipment:				
Power excavators (power shovels)	183	6,550,000	237	8,349,000
Bulldozing, angle-dozing and similar equipment	..	488,000	..	244,000
Scrapers and pull or push type graders	..	110,000	..	52,000
Graders, self-propelled type	190	3,080,000	230	3,963,000
Snow ploughs	..	1,172,000	..	1,286,000
Concrete mixer-agitators, truck type	132	721,000	358	2,119,000
Concrete, plaster and mortar mixers, other	3,685	530,000	3,632	478,000
Other mixing and paving equipment (concrete and bituminous)	...	650,000	...	1,561,000
Other construction machinery, including pneumatic hammers, demountable scaffolding etc. and parts	...	3,296,000	...	3,214,000
Other excavating machinery and parts	...	5,603,000	...	6,609,000
Other road and airport construction and maintenance machinery, including snow blowers, flushers, etc. and parts	...	2,923,000	...	2,828,000
Engines (excluding aircraft and automobile types):				
Turbines, hydraulic and steam	..	19,138,000	..	17,884,000
Diesel	525	9,718,000	212	8,844,000
Gasoline, including outboard, industrial, etc.	101,986	17,172,000	89,440	17,795,000
Steam	..	1,061,000	..	-
Engine parts:				
For diesel engines	...	1,184,000	...	834,000
For gasoline engines	...	710,000	...	1,867,000
For marine engines	...	2,237,000	...	2,501,000
Fire fighting equipment:				
Pumpers	97	1,579,000	50	848,000
Other fire-fighting equipment, including hose trucks, ladder trucks, etc.	...	2,348,000	...	1,634,000
Food products machinery (including beverages and tobacco) machinery:				
Bakers' machinery:				
Mixing machines	658	767,000	657	723,000
Ovens	638	825,000	557	890,000
Other bakers' machinery and parts	...	747,000	...	644,000
Dairy and milk products plant machinery, excluding milking machines	...	2,310,000	...	1,653,000
Flour and grist mill machinery	...	405,000	...	371,000
Other food products machinery and parts, including milking machines	...	2,926,000	...	2,370,000
Foundry equipment	...	312,000	...	430,000

See footnote at end of table.

TABLE 9. Factory Shipments of Specified Products Made Principally of Iron and Steel, 1958 and 1959 - Continued

Product	1958		1959	
	Quantity shipped	Value of factory shipments	Quantity shipped	Value of factory shipments
	No.	\$	No.	\$
Household machinery (except refrigeration and air conditioning equipment):				
Washing machines:				
Electric:				
Automatic type .....	60,326	11,984,000	76,718	14,669,000
Apartment type .....	..	..	..	..
Conventional type .....	234,200	21,801,000	246,191	21,441,000
Gasoline type .....	3,686	432,000	3,974	455,000
Ironers, electric .....	1,754	230,000	1,115	177,000
Floor polishers, electric .....	218,747	6,744,000	227,258	6,743,000
Dryers, clothes, automatic, electric .....	81,868	10,693,000	105,813	13,589,000
Vacuum cleaners:				
Electric:				
Floor models .....	25,310	1,741,000	32,616	1,931,000
Cylinder models .....	132,201	8,049,000	130,989	8,088,000
Other household machinery (including sewing machines, dishwashers, etc.) and parts .....	...	22,265,000	...	19,489,000
Metal-working machinery:				
Machine tools, metal-working:				
Boring machines .....	\$	\$	\$	\$
Broaching machines .....	\$	\$	\$	\$
Drilling machines .....	\$	\$	\$	\$
Grinding machines and grinders .....	569	316,000	133	340,000
Hammers (forging) .....	\$	\$	\$	\$
Lathes, engine and turret .....	92	869,000	111	706,000
Milling machines .....	\$	\$	\$	\$
Presses .....	..	2,698,000	..	1,610,000
Punching machines .....	\$	\$	\$	\$
Rolls, bending and straightening .....	399	161,000	618	274,000
Shapers .....	\$	\$	\$	\$
Shearing machines .....	221	184,000	227	144,000
Thread-cutting machines .....	\$	\$	\$	\$
Other machine tools .....	...	2,071,000	...	1,450,000
Machine tool parts and accessories .....	...	1,455,000	...	1,455,000
Metal-working machinery (except machine tools), including rolling mill machinery .....	...	4,916,000	...	4,890,000
Office, store and business machinery:				
Accounting machines .....	6	6	6	6
Adding machines .....	14,610	2,273,000	13,568	1,898,000
Addressing and mailing machines .....	6	6	6	6
Cash registers .....	6	6	6	6
Calculating machines .....	6	6	6	6
Card-sorting and tabulating machines .....	6	6	6	6
Duplicating machines .....	7	7	7	7
Bread-slicing machines .....	7	7	7	7
Meat-slicing machines .....	7	7	7	7
Scales:				
For stores, homes and offices .....	98,947	1,371,000	105,598	1,541,000
Industrial:				
Bench or portable type .....	3,887	1,000,000	4,105	770,000
Built-in or pit type .....	577	1,009,000	769	1,587,000
Typewriters:				
Standard, including long carriage .....	28,131	4,658,000	25,651	3,218,000
Portable .....	44,668	2,834,000	34,180	2,104,000
Electric .....	9,663	4,187,000	14,090	5,433,000
Time recording, job recording and time stamping machines .....	6	6	6	6
Other office and business machinery .....	...	29,293,000	...	30,075,000
Other store machinery .....	...	982,000	...	1,647,000
Parts for office, store and business machinery .....	...	6,843,000	...	6,101,000
Printing and bookbinding machinery and parts .....	...	1,247,000	6	6
Pulp and paper industries machinery and parts .....	...	14,659,000	...	18,121,000
Refrigeration and air conditioning equipment:				
Refrigeration equipment:				
Household refrigerators:				
Household mechanical refrigerators, complete units (electric and gas), all sizes .....	228,523	39,759,000	256,776	44,549,000
Self-contained units:				
Milk coolers, all sizes .....	529	94,000	181	210,000
Ice-cream cabinets, all sizes .....	1,086	371,000	878	315,000
Beverage coolers, all sizes .....	3,720	1,175,000	4,963	1,468,000
Water-coolers, all sizes .....	40	20,000	14	1,000
Freezers:				
Frosted food cabinets .....	1,870	384,000	1,197	739,000
Home freezers, all sizes .....	31,685	6,714,000	80,685	12,104,000
Fixtures:				
Display cases, normal temperature .....	2,202	1,750,000	2,206	1,725,000
Low-temperature refrigerators .....	829	763,000	983	845,000
Reach-in refrigerators (remote only) .....	433	271,000	515	323,000
Sectional walk-in coolers, all types .....	852	1,024,000	758	1,118,000
Self-contained commercial refrigerator products:				
Display cases, all sizes .....	698	754,000	873	875,000
Reach-ins, all sizes .....	546	314,000	408	246,000
Evaporators:				
Unit cooler type, all sizes .....	..	526,000	..	721,000
Fin coils, all sizes .....	2,883	482,000	..	760,000
Ice-makers .....	627	11,000	..	..

See footnotes at end of table.



TABLE 9. Factory Shipments of Specified Products Made Principally of Iron and Steel, 1958 and 1959 - Continued

Product	1958		1959	
	Quantity shipped	Value of factory shipments	Quantity shipped	Value of factory shipments
	No.	\$	No.	\$
Refrigeration and air conditioning equipment - Concluded:				
Refrigeration equipment - Concluded:				
Compressors and condensing units:				
Domestic, for assembly in individual household cabinets .....	48,212	1,473,000	10,410	2,029,000
Commercial - Low pressure and ammonia .....	3,139	1,142,000		
Evaporative condensers:				
Low pressure .....	..	191,000	..	317,000
Ammonia .....	..	25,000	..	..
All other refrigeration equipment .....	...	5,505,000	...	5,322,000
Air conditioning equipment:				
Room air-conditioners, window type .....	1,644	396,000	3,365	448,000
Self-contained air conditioners, except window type:				
2-5 hp. ....	133	241,000	250	351,000
Over 5 hp. ....				
Air conditioners - Central plant - Domestic .....	..	..	..	..
Other air conditioning equipment, including parts, components and accessories .....	...	7,072,000	...	7,080,000
Service industry equipment (including vending machines):				
Commercial laundry and dry cleaning equipment .....	..	1,727,000	..	1,645,000
Vending machines .....	..	187,000	..	163,000
Service station and garage equipment:				
Auto lifts .....	2,204	1,422,000	2,356	1,587,000
Gasoline-dispensing pumps .....	8,002	4,908,000	9,496	4,706,000
Other garage equipment .....	..	715,000	..	805,000
Other service industry machinery .....	...	1,094,000	..	3,186,000
Ships' machinery and fittings (except winches) .....	...	4,609,000	..	3,602,000
Textile industries machinery and parts .....	..	266,000	..	144,000
Transmission equipment and bearings:				
Bearings, ball and roller, and parts .....	..	10,334,000	..	15,961,000
Cut tooth and cast tooth gears .....	..	2,174,000	..	2,201,000
Flexible couplings .....	..	521,000	..	429,000
Pulleys .....	..	598,000	..	562,000
Sprocket chain and drive chain .....	..	1,723,000	..	1,822,000
Speed reducer units .....	..	2,374,000	..	2,210,000
Other transmission machinery and parts .....	...	3,984,000	..	4,345,000
Water and sewage treatment equipment:				
Domestic water softeners .....	9,050	810,000	15,263	1,779,000
Other water and sewage treatment equipment and parts .....	...	2,728,000	..	3,409,000
Woodworking machinery (excluding power driven hand tools and home workshop tools):				
Band sawing machines .....	40	199,000	10	10
Lathes .....	10	10	10	10
Moulders .....	..	..	..	..
Planers .....	135	172,000	31	134,000
Rip and cross cut saws .....	53	25,000	10	10
Tenoners .....	16	18,000	..	..
Other wood-working machinery and parts .....	...	806,000	...	1,261,000
General purpose industrial machinery:				
Wrapping and packaging machinery and parts .....	..	535,000	..	1,291,000
Crushing, pulverizing, scouring and mixing machinery and parts .....	..	1,088,000	11	11
Other general purpose industrial machinery and parts .....	..	10,514,000	..	10,006,000
Ventilating, exhaust and dust-collecting equipment .....	..	10,154,000	..	9,882,000
Special industry machinery:				
Rubber-working machinery .....	..	1,343,000	..	1,565,000
Cement mill machinery .....	..	277,000	..	218,000
Saw-mill machinery, including lumber handling equipment .....	..	3,618,000	..	4,052,000
Logging, machinery .....	..	969,000	..	1,767,000
Grain elevator machinery .....	..	1,731,000	..	1,479,010
Other special industry machinery and parts .....	...	9,337,000	..	7,899,000
Electrical machinery:				
Converter equipment (excluding rectifiers):				
Motor-generator sets - A.C. to D.C. ....	212	2,210,000	178	2,048,000
Frequency changer sets - A.C. to D.C. ....	14	94,000	..	76,000
Parts and supplies for converter equipment .....	...	330,000	...	463,000
Generators and parts (excluding automobile generators, engine-driven generator sets and motor-generator sets):				
A.C.:				
200 kva. and under, any speed .....	4	16,000	12	55,000
201 kva. to 1000 kva., any speed .....	21	282,000	35	544,000
1001 kva. and above, all speeds .....	73	27,128,000	37	19,004,000
D.C. and including exciters:				
Under 1/2 kw. ....	13	13	13	13
1 kw. to 1,000 kw. ....	12	13		
1,001 kw. and over .....	..	..		
Accessories and parts for generators .....	...	235,000	...	670,000

See footnotes at end of table.

TABLE 9. Factory Shipments of Specified Products Made Principally of Iron and Steel, 1958 and 1959 — Continued

Product	1958		1959	
	Quantity shipped	Value of factory shipments	Quantity shipped	Value of factory shipments
		\$		\$
A.C. motors (except for railway and vehicle use):				
Single phase induction:				
1/2 hp. and under (except shaded pole or universal motors) .....	No. 991,328	13,285,000	1,056,932	14,169,000
1/2 hp. and 3/4 hp. ....	" 73,789	2,220,000	73,122	1,950,000
1 hp. to 5 hp. inclusive-open type .....	" 10,825	1,131,000	8,866	905,000
1 hp. to 5 hp. inclusive-enclosed type .....	" 1,193	144,000	1,199	158,000
Polyphase induction:				
1/2 hp. and under .....	" 3,745	124,000	4,781	126,000
1/2 hp. and 3/4 hp. ....	" 8,552	384,000	8,210	333,000
1 hp. to 5 hp. inclusive-open type .....	" 16,142	1,332,000	16,167	1,302,000
1 hp. to 5 hp. inclusive-enclosed type .....	" 7,255	759,000	8,408	869,000
6 hp. to 25 hp. inclusive-open type .....	" 4,179	912,000	4,593	989,000
6 hp. to 25 hp. inclusive-enclosed type .....	" 4,429	1,213,000	4,894	1,309,000
26 hp. to 100 hp. inclusive-open type .....	" 1,536	1,206,000	1,724	1,330,000
26 hp. to 100 hp. inclusive-enclosed type .....	" 1,256	1,181,000	1,204	1,208,000
101 hp. to 200 hp. inclusive-open type .....	" 324	941,000	377	999,000
101 hp. to 200 hp. inclusive-enclosed type .....	" 139	520,000	125	462,000
201 hp. to 1,000 hp. inclusive .....	" 360	3,085,000	212	1,400,000
1,001 hp. and over .....	" }			
Synchronous motors and condensers:				
Up to and including 200 hp. or kva. ....	" 14	52,000	18	71,000
201 hp. or kva. to 1,000 hp. or kva. ....	" 44	610,000	53	500,000
1,001 hp. or kva. and over .....	" 14	378,000	..	..
Accessories and parts for A.C. motors .....	" ..	581,000	" ..	597,000
Railway and vehicle motors, A.C. and D.C. ....	" 12	..	" 12	..
Shaded pole type motors, all ratings .....	No. 167,283	1,029,000	134,063	808,000
Universal type motors, all ratings .....	" 12	..	" ..	432,000
D.C. models and generators, including exciters, (except for railway and vehicle use):				
D.C. motors — 1/2 kw. and under .....	No. 377,290	1,266,000	454,411	1,474,000
1/2 kw. and 3/4 kw. ....	" 222	43,000	48	5,000
D.C. motors or generators:				
1 hp. or kw. to 5 hp. or kw. ....	" 363	128,000	372	267,000
6 hp. or kw. to 25 hp. or kw. ....	" 344	580,000	230	464,000
26 hp. or kw. to 100 hp. or kw. ....	" 426	1,384,000	312	1,066,000
101 hp. or kw. to 200 hp. or kw. ....	" 45	464,000	29	237,000
201 hp. or kw. to 1,000 hp. or kw. ....	" 80	1,874,000	59	984,000
1,001 hp. or kw. and over .....	" 12	..	" 12	..
All other motors or generators .....	" ..	7,492,000 <sup>13</sup>	" ..	9,196,000 <sup>14</sup>
Accessories and parts for D.C. motors and generators .....	" ..	503,000	" ..	641,000
Electrical appliances, motor driven, not elsewhere specified, including shavers, fans, hair clippers, food mixers, electric clocks, etc. ....	" ..	11,661,000	" ..	11,386,000
Welding machinery, electric .....	" ..	3,545,000	" ..	4,276,000
Miscellaneous machinery:				
Blowers for domestic furnaces .....	No. 180,026	2,306,000	212,813	2,556,000
Cream separators .....	" 62	6,000	..	..
Gas conversion burners .....	" 10,357	802,000	7,224	757,000
Lawn mowers:				
Hand .....	" 6,457	62,000	2,534	37,000
Power .....	" 154,208	6,561,000	107,986	4,628,000
Oil burners, power:				
Domestic .....	" 99,745	7,726,000	105,097	7,730,000
Commercial and industrial .....	" 2,445	1,346,000	3,509	1,262,000
Power tools, hobby and home workshop .....	" ..	4,025,000	" ..	4,001,000
Saws, power chain, and parts .....	" ..	7,170,000	" ..	8,596,000
Stokers:				
Domestic .....	No. 691	191,000	1,190	264,000
Commercial and industrial .....	" 408	886,000	430	870,000
All other machinery and parts, not separately specified .....	" ..	29,608,000	" ..	24,040,000
Manure spreaders .....	No. 4,165	1,646,066	5,502	2,591,897
Mowers, hay .....	" 17,028	4,215,132	30,605	7,008,097
Nails and spikes:				
Wire:				
Quantity made (kegs of 100 pounds) .....	keg 1,659,325	..	1,527,192	..
Quantity sold (kegs of 100 pounds) .....	" 1,658,129	16,364,801	1,481,101	15,230,229
Peavies, canthooks and pike poles .....	" ..	232,000	" ..	224,000
Pipe and tubing:				
Cast iron soil pipe .....	ton 71,000	13,632,000	68,000	13,420,000
Cast iron water pipe and fittings .....	" 130,000	19,113,000	132,000	18,717,000
Cast iron pipe fittings, all other, including flanges and flange fittings .....	" 10,400	4,149,000	12,000	4,854,000
Malleable iron pipe fittings of all kinds, including railing fittings .....	" 7,800	5,851,000	8,600	6,042,000
Steel pipe and tubing .....	" 537,900	117,805,000	488,900	106,004,000
Steel pipe fittings, all kinds .....	" 13,300	8,924,000	12,400	8,314,000
Steel pipe, rivetted or welded (from plate):				
Stainless steel .....	" 700	1,232,000	600	1,085,000
Other steel .....	" 12,200	3,577,000	7,400	2,194,000
Culvert pipe formed from steel sheets .....	" 59,600	19,634,000	66,300	21,296,000
Pipe, stove and furnace .....	" ..	3,970,000	" ..	5,063,000

See footnotes at end of table.



TABLE 9. Factory Shipments of Specified Products Made Principally of Iron and Steel, 1958 and 1959 - Continued

Product		1958		1959	
		Quantity shipped	Value of factory shipments	Quantity shipped	Value of factory shipments
			\$		\$
Planters, corn	No.	810	252,513	1,347	322,746
Plates, steel:					
Quantity made	ton	230,309	—	416,099	—
Quantity sold	"	226,750	30,618,858	408,835	53,394,313
Plows, all kinds	No.	38,248	2,993,323	21,640	4,178,342
Radiators, heating:					
Standing type, cast iron and pressed steel (excluding tube and fin types)	sq. ft.	3,209,793	2,319,521	2,680,619	1,910,298
Baseboard type, cast iron, pressed steel and other fabricated metal	"	6,480,608	4,572,077	6,604,953	5,064,206
Concealed type, cast iron, pressed steel and other fabricated metal	"	6,497,917	5,331,750	6,302,300	5,169,707
Rails, steel:					
Quantity made	ton	365,429	—	286,989	—
Quantity sold	"	377,604	41,586,604	286,419	31,636,649
Railway fish plates and splice bars:					
Quantity made	"	14,078	—	14,853	—
Quantity sold	"	14,088	2,066,753	14,818	2,212,917
Railway tie plates:					
Quantity made	"	56,118	—	70,376	—
Quantity sold	"	56,189	7,338,111	70,351	8,970,082
Rakes, hand	No.	131,802	213,000	282,000	514,000
Range boilers, domestic:					
Galvanized	"	164,946	2,495,190	142,948	2,264,119
Copper, everdur and monel	"	19,776	699,639	15,732	519,642
Razor blades, safety	000's	184,262	4,180,000	203,868	4,793,000
Registers and grills, warm air		—	3,192,205	—	2,971,920
Rods, welding	ton	18,474	7,436,000	21,777	8,460,000
Rods, wire:					
Quantity made	"	268,848 <sup>14</sup>	—	382,106 <sup>14</sup>	—
Quantity sold	"	270,210	30,592,181	360,132	46,182,505
Sheets, galvanized:					
Quantity sold	"	192,000 <sup>15</sup>	32,636,000	298,951 <sup>15</sup>	51,265,000
Spades and shovels	No.	1,158,423	2,438,142	1,106,000	2,420,000
Staples, wire:					
Quantity made (kegs of 100 pounds)	keg	27,219	—	26,434	—
Quantity sold (kegs of 100 pounds)	"	25,861	300,423	27,042	318,592
Stoves:					
Coal, wood and sawdust-burning cooking stoves and ranges, including ranges with gas or electric extension	No.	15,934	1,711,519	15,658	1,516,815
Coal, wood and sawdust-burning heating stoves and space-heaters, including all heaters, circulators, Quebec, box, oak, Franklin, globular and laundry	"	32,789	542,753	32,399	728,932
Solid fuel and gas combination or oil and gas combination (not including stoves or ranges with gas extension)	"	6,701	1,498,945	7,445	1,755,020
Solid fuel and electric combination or oil and electric combination (not including stoves or ranges with electric extension)	"	7,714	1,871,042	7,050	1,742,317
Gas cooking stoves and ranges (not combinations), including all styles with ovens	"	37,729	5,086,643	36,527	5,080,235
Gas heating stoves and space heaters	"	15,604	640,393	20,539	1,044,820
Gas cooking plates—No oven	"	12,179	97,069	9,285	80,041
Electric cooking stoves or ranges (over 35 amperes), all styles with ovens	"	226,079	33,727,324	246,532	35,910,450
Electric range-tops, including cord attachment and oven as one unit	"	25,610	1,028,761	20,312	834,535
Electric cooking plate and grills, including stoves for glass coffee-makers	"	125,119	693,478	82,747	594,372
Oil (kerosene) and gasoline cooking stoves and ranges	"	—	—	—	—
Oil (kerosene) and gasoline heating stoves and space-heaters	"	—	—	—	—
Fuel oil (distillate) cooking stoves and ranges	No.	7,609	1,127,231	8,768	1,314,864
Fuel oil (distillate) heating stoves and space-heaters	"	53,366	2,847,850	53,285	2,866,865
Structural shapes, steel:					
Quantity made	ton	217,137	—	268,573	—
Quantity sold	"	225,295	29,140,873	265,194	34,528,656
Tacks, all kinds:					
Quantity made	lb.	2,219,474	—	2,264,247	—
Quantity sold	"	2,356,440	880,264	2,042,335	742,686
Threshers and reaper-threshers	No.	14,645	41,482,845	18,134	51,074,277

See footnotes at end of table.

TABLE 9. Factory Shipments of Specified Products Made Principally of Iron and Steel, 1958 and 1959 - Concluded

Product	1958		1959	
	Quantity shipped	Value of factory shipments	Quantity shipped	Value of factory shipments
		\$		\$
Weeders ..... No.	1,585	333,255	2,836	683,445
Windows, metal:				
Factory and commercial, including screws and accessories:				
Steel .....	..	4,245,000	..	4,036,000
Aluminum .....	..	14,173,000	..	14,778,000
Residential, including screws and accessories:				
Steel .....	16	16	16	16
Aluminum .....	..	6,243,000	..	7,374,000
Combination storm and screen:				
Steel .....	16	16	16	16
Aluminum .....	..	8,877,000	..	12,051,000
Wire, steel:				
Barbed:				
Quantity made ..... ton	4,649	—	3,755	—
Quantity sold .....	4,588	854,878	3,393	632,162
Galvanized:				
Quantity made ..... "	56,328	—	62,269	—
Quantity sold .....	28,210	6,898,132	31,695	7,587,034
Other coated:				
Quantity made ..... "	2,397	—	4,450	—
Quantity sold .....	2,148	642,017	4,336	1,278,729
Plain:				
Quantity made ..... "	305,733	—	360,874	—
Quantity sold .....	114,843	21,741,095	146,271	27,557,523
Wire rope and cable, steel:				
Quantity sold .....	22,029	15,789,580	23,853	16,986,582
Wire, twisted strand:				
Quantity sold .....	7,536	2,828,853	8,511	3,084,852

<sup>1</sup> Not including drums made by some companies for their own use.<sup>2</sup> Not collected separately.<sup>3</sup> See footnote to Table 8.<sup>4</sup> Included with "other rock drilling machinery" to avoid disclosure.<sup>5</sup> Included with "other machine tools" to avoid disclosure.<sup>6</sup> Included with "other office and business machinery" to avoid disclosure.<sup>7</sup> Included with "other store machinery".<sup>8</sup> Included with "other special industry machinery and parts" to avoid disclosure.<sup>9</sup> Included with "other air-conditioning equipment" to avoid disclosure.<sup>10</sup> Included with "other wood-working machinery and parts" to avoid disclosure.<sup>11</sup> Included with "other general purpose machinery" to avoid disclosure.<sup>12</sup> Included with "all other motors or generators" to avoid disclosure.<sup>13</sup> Includes rotors and stators.<sup>14</sup> Includes shipments transferred to own fabricating mills of producing firms.<sup>15</sup> Does not include approximately 5,000 tons of galvanized sheet further processed into "roofing" in 1958 and approximately 5,400 tons in 1959.<sup>16</sup> Included with "factory" to avoid disclosure.



TABLE 10. Capital and Repair Expenditures in the Iron and Steel Products Group, by Industries, 1959

	Capital expenditures		Sub-total	Repair expenditures		Sub-total	Total capital and repair expenditures
	Con-struction	Machinery		Con-struction	Machinery		
	thousands of dollars						
Agricultural implements .....	956	5,352	6,308	1,058	4,750	5,808	12,116
Boilers and plate work .....	627	2,004	2,631	292	1,775	2,067	4,698
Bridge and structural steel .....	1,629	3,449	5,078	608	2,584	3,192	8,270
Hardware, tools and cutlery .....	3,997	6,461	10,458	719	4,368	5,087	15,545
Heating and cooking apparatus .....	963	1,565	2,528	477	1,004	1,481	4,009
Iron castings .....	5,333	16,636	21,969	1,106	12,055	13,161	35,130
Machine shops .....	415	1,366	1,781	264	793	1,057	2,838
Machinery, household, office and store .....	477	2,549	3,026	715	1,216	1,931	4,957
Machine tools .....	104	284	388	84	100	184	572
Machinery, not elsewhere classified .....	3,486	6,459	9,945	1,247	4,699	5,946	15,891
Primary iron and steel .....	15,044	59,677	74,721	6,460	73,277	79,737	154,458
Sheet metal products .....	4,682	10,726	15,408	1,130	5,563	6,693	22,101
Wire and wire products .....	2,399	5,508	7,907	926	5,772	6,698	14,605
Miscellaneous iron and steel .....	732	2,663	3,395	936	3,786	4,722	8,117
Totals .....	40,844	124,699	165,543	16,022	121,742	137,764	303,307

Note: The above are final figures and may differ slightly from the preliminary figures shown in the individual industry reports.

TABLE 11. Principal Statistics of the Iron and Steel Products Group classified according to Size of Establishment, 1959

Size group	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	number			dollars		
Gross value of factory shipments:						
Under \$10,000 .....	220	344	624,737	59,576	422,007	1,300,785
\$ 10,000 to \$ 24,999 .....	399	1,199	3,054,650	227,567	2,202,696	6,844,883
25,000 " 49,999 .....	409	2,145	6,519,974	340,930	5,013,789	14,847,498
50,000 " 99,999 .....	468	4,321	14,590,769	719,539	11,449,596	33,252,232
100,000 " 199,999 .....	484	7,446	27,550,572	1,320,606	26,004,589	68,531,001
200,000 " 499,999 .....	507	14,909	59,241,654	2,693,032	69,628,973	163,734,131
500,000 " 999,999 .....	275	14,990	61,181,541	2,586,321	93,146,992	195,556,347
1,000,000 " 4,999,999 .....	384	58,560	245,047,183	13,576,240	411,196,767	864,768,682
5,000,000 and over .....	100	86,667	441,177,158	44,521,211	867,256,449	1,728,792,664
Head offices .....	—	388	2,457,449	—	—	—
<b>Totals .....</b>	<b>3,248</b>	<b>192,969</b>	<b>861,445,687</b>	<b>66,045,022</b>	<b>1,486,321,858</b>	<b>3,977,628,204</b>

TABLE 12. Principal Statistics of the Iron and Steel Products Group classified according to Type of Ownership, 1959

Type of ownership	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	number			dollars		
Individual ownership .....	702	3,282	9,763,618	572,335	9,089,137	24,782,076
Partnership .....	282	2,501	8,561,798	441,101	12,405,359	26,085,324
Incorporated companies .....	2,262	187,186	843,120,273	65,031,566	1,464,827,182	3,026,780,804
Co-operatives .....	—	—	—	—	—	—
<b>Totals .....</b>	<b>3,246</b>	<b>192,969</b>	<b>861,445,687</b>	<b>66,045,022</b>	<b>1,486,321,858</b>	<b>3,977,628,204</b>

**TABLE 13. Fuel and Electricity Used<sup>1</sup> in the Manufacture of Iron and Steel Products in Canada,  
by Industries and by Provinces, 1959**

No.		Bituminous coal		Sub-bituminous coal from Alberta mines only	Anthracite coal	Lignite coal	Coke (for fuel only)	Gasoline (including gasoline used in cars and trucks)
		From Canadian mines	Imported					
		tons						Imp. gal.
(a) By industries								
Agricultural implements:								
1	Quantity .....	21,796	36,783	85	200	235	393	433,292
2	Cost .....	\$ 227,023	370,623	850	4,697	1,962	12,749	130,807
Boilers, tanks and plate work:								
3	Quantity .....	1,683	7,882	—	8,219	—	105	486,402
4	Cost .....	\$ 23,904	88,964	—	89,230	—	3,330	187,094
Bridge and structural steel work:								
5	Quantity .....	14,498	2,714	—	101	1,952	87	1,185,187
6	Cost .....	\$ 199,370	37,082	—	2,225	15,058	1,653	399,447
Hardware, tools and cutlery:								
7	Quantity .....	2,048	8,501	—	507	—	—	264,984
8	Cost .....	\$ 24,468	114,449	—	7,632	—	—	112,333
Heating and cooking apparatus:								
9	Quantity .....	4,139	5,575	—	746	—	349	168,322
10	Cost .....	\$ 55,309	75,471	—	9,490	—	11,737	70,468
Iron castings:								
11	Quantity .....	7,038	32,747	—	2,496	—	3,466	517,985
12	Cost .....	\$ 83,950	480,695	—	30,965	—	93,103	189,183
Machinery (Household, office and store):								
13	Quantity .....	2,059	8,811	—	254	—	—	111,369
14	Cost .....	\$ 26,237	113,871	—	4,005	—	—	44,466
Machinery (Industrial):								
15	Quantity .....	5,510	18,488	515	1,025	625	1,158	661,446
16	Cost .....	\$ 90,508	232,147	2,927	15,211	5,463	37,003	256,611
Machine shops:								
17	Quantity .....	1,818	693	160	187	—	237	674,065
18	Cost .....	\$ 29,613	12,146	2,634	3,941	—	7,999	286,720
Machine tools:								
19	Quantity .....	215	3,276	—	376	—	—	8,119
20	Cost .....	\$ 2,621	38,206	—	6,299	—	—	3,415
Primary iron and steel:								
21	Quantity .....	39,733	31,851	—	—	—	33,438	493,218
22	Cost .....	\$ 452,542	337,689	—	—	—	236,184	141,527
Sheet metal products:								
23	Quantity .....	2,430	13,353	—	838	—	506	895,759
24	Cost .....	\$ 31,447	172,218	—	11,143	—	11,456	343,737
Wire and wire products:								
25	Quantity .....	7,809	8,044	—	3,683	—	22	208,583
26	Cost .....	\$ 96,422	103,485	—	46,807	—	511	76,550
Miscellaneous iron and steel products:								
27	Quantity .....	3,699	18,670	26	533	—	14	496,587
28	Cost .....	\$ 46,830	215,417	231	9,604	—	360	196,164

See footnotes at end of table.



TABLE 13. Fuel and Electricity Used in the Manufacture of Iron and Steel Products in Canada, by Industries and by Provinces, 1959

Fuel oil (not including lubricating oil)	Wood (cords of 128 cubic ft. of piled wood)	Gas			Other fuel	Electricity		Steam purchased	No.
		Liquefied pe- troleum gases (propane, etc.)	Other manufactured gas <sup>1</sup>	Natural gas		Purchased	Generated for own use		
Imp. gal.	cords	Imp. gal.	M cu. ft.			kwh.			
2,832,743	163	5,184	236	181,965	—	91,882,746	—	—	1
349,054	4,296	1,633	246	159,095	4,302	846,972	—	298,203	2
1,781,591	25	48,265	—	136,532	—	41,270,387	—	..	3
215,591	282	12,864	—	60,944	632	528,247	—	30,755	4
3,137,842	—	26,950	2,987	170,350	—	61,290,911	—	—	5
416,174	—	6,175	5,820	131,626	626	719,264	—	—	6
3,179,695	305	264,332	1,944	299,330	—	66,274,337	10,600	..	7
435,921	2,611	58,028	2,003	269,190	762	649,902	—	12,878	8
3,156,488	132	102,233	254	316,076	—	47,240,264	—	—	9
392,261	528	22,335	317	272,235	17,208	633,820	—	—	10
11,920,630	727	56,396	701,033	532,043	—	167,906,978	—	—	11
4,378,930	6,578	15,636	189,733	323,053	6,121	1,780,421	—	—	12
3,129,604	—	78,096	—	33,418	—	30,853,284	—	—	13
282,292	—	18,391	—	41,104	2,561	375,502	—	—	14
6,929,515	44	120,761	5,098	166,065	—	123,703,311	—	..	15
799,580	768	23,631	7,577	187,057	40,646	1,353,493	—	30,310	16
782,878	178	23,280	11,091	95,296	—	18,205,537	—	..	17
135,816	886	8,841	9,332	47,861	13,632	384,899	—	5,124	18
206,910	—	—	299	19,554	—	6,698,640	—	—	19
24,962	—	—	345	18,523	—	60,175	—	—	20
125,218,478	97	42,551	31,481,394	2,761,568	—	2,193,273,074	109,908,937	—	21
10,972,045	1,374	8,426	9,433,440	1,611,046	17,576	12,864,391	—	—	22
4,603,648	13	29,786	112	800,016	—	89,680,623	234,000	..	23
533,104	50	8,500	196	751,217	748	1,094,986	—	50,907	24
3,472,965	360	152,212	574,184	373,302	—	121,072,870	—	—	25
393,286	3,060	36,355	213,587	257,905	2,504	975,667	—	120,113	26
6,756,827	7	193,984	—	561,305	—	66,577,170	—	—	27
618,261	44	31,172	—	382,525	15,800	798,569	—	37,567	28

**TABLE 13. Fuel and Electricity Used<sup>1</sup> in the Manufacture of Iron and Steel Products in Canada,  
by Industries and by Provinces, 1939 — Concluded**

No.		Bituminous coal		Sub-bituminous coal from Alberta mines only	Anthracite coal	Lignite coal	Coke (for fuel only)	Gasoline (including gasoline used in cars and trucks)	
		From Canadian mines	Imported						
		tons							Imp. gal.
	(b) By provinces								
	Newfoundland:								
1	Quantity .....	10	—	—	—	—	—	10,152	
2	Cost .....	\$ 204	—	—	—	—	—	4,616	
	Prince Edward Island:								
3	Quantity .....	16	—	—	—	—	34	—	
4	Cost .....	\$ 375	—	—	—	—	1,300	—	
	Nova Scotia:								
5	Quantity .....	42,720	—	—	—	—	3,076	94,883	
6	Cost .....	\$ 485,160	—	—	—	—	38,936	39,651	
	New Brunswick:								
7	Quantity .....	3,695	—	—	—	—	50	48,656	
8	Cost .....	\$ 54,708	—	—	—	—	1,498	21,476	
	Quebec:								
9	Quantity .....	32,101	1,076	—	988	—	4,180	1,518,855	
10	Cost .....	\$ 447,795	18,414	—	16,550	—	119,643	573,324	
	Ontario:								
11	Quantity .....	32,539	195,845	1	17,880	352	32,383	3,955,879	
12	Cost .....	\$ 365,852	2,363,185	23	218,042	7,058	253,463	1,422,461	
	Manitoba:								
13	Quantity .....	2,942	360	625	128	2,460	32	200,643	
14	Cost .....	\$ 28,779	6,751	3,985	3,200	15,425	612	77,647	
	Saskatchewan:								
15	Quantity .....	65	—	11	—	—	—	83,401	
16	Cost .....	\$ 770	—	168	—	—	—	28,395	
	Alberta:								
17	Quantity .....	103	—	40	—	—	—	421,964	
18	Cost .....	\$ 1,239	—	388	—	—	—	163,418	
	British Columbia:								
19	Quantity .....	250	108	109	169	—	20	270,885	
20	Cost .....	\$ 5,364	2,113	2,078	3,457	—	634	106,964	

<sup>1</sup> Data in this table relate only to establishments generally reporting value of factory shipments of \$300,000 and over. For total value of fuel and electricity used (include estimates for small firms) see Tables 1 and 2.



**TABLE 13. Fuel and Electricity Used in the Manufacture of Iron and Steel Products in Canada,  
by Industries and by Provinces, 1959 - Concluded**

Fuel oil (not including lubricating oil)	Wood (cords of 128 cubic ft. of piled wood)	Gas			Other fuel	Electricity		Steam purchased	No.
		Liquefied pe- troleum gases (propane, etc.)	Other manufactured gas <sup>2</sup>	Natural gas		Purchased	Generated for own use		
Imp. gal.	cords	Imp. gal.	M cu. ft.			kwh.			
123,576	-	-	-	-	-	979,150	-	-	1
20,012	-	-	-	-	-	21,558	-	-	2
4,398	-	-	-	-	-	26,164	-	-	3
832	-	-	-	-	-	1,277	-	-	4
17,242,094	19	2,354	3,380,666	-	-	17,353,766	69,155,737	-	5
1,350,511	270	1,129	1,302,343	-	4,210	219,630	-	-	6
700,118	14	1,320	2,073	-	-	2,482,430	-	-	7
95,982	146	691	2,267	-	-	57,942	-	-	8
26,815,248	523	150,336	9,426	280,967	-	745,564,812	10,600	..	9
3,435,180	4,276	36,565	12,997	247,808	48,064	4,275,963	-	48,575	10
128,399,629	1,351	922,099	29,380,655	5,254,294	-	2,137,579,225	40,987,200	..	11
12,172,697	9,162	202,005	8,541,078	3,889,153	37,276	16,364,379	-	532,492	12
5,258,171	192	1,252	1,353	39,348	-	77,397,515	-	..	13
399,697	2,371	324	1,115	37,698	5,888	678,619	-	3,895	14
150,602	8	2,610	-	14,471	-	3,148,505	-	-	15
24,290	87	521	-	7,995	-	65,806	-	-	16
17,829	96	17,020	-	716,024	-	37,110,358	-	..	17
3,332	335	1,369	-	197,681	762	569,230	-	1,095	18
1,428,149	426	47,039	4,459	143,716	-	103,288,207	-	-	19
170,784	3,830	9,383	2,796	133,046	26,918	1,011,904	-	-	20

<sup>2</sup> Does not include blast furnace gas made for own use.

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